

3<sup>rd</sup> Edition  
e-Mobility Conference  
**“Silicon to Mobility, EVs quantum leap”**  
Wednesday, 17<sup>th</sup> September 2025: Convention Centre, BIEC, Bengaluru

**10:45 am – 11:15 am: Inauguration Session**

**11:15 am – 12:15 pm: CEO Debate**

**Customization vs. Standardization: Semiconductor Strategies for the Evolving EV Market**

*Topics covered:*

- What are the "must-have" features versus "nice-to-have" features
- How do these translate into semiconductor demands?
- Are certain features driving a need for more specialized chips?
- Performance, cost, and features
- Integration of new technologies and functionalities
- Importance of Scalability and Future-Proofing

**12:15 pm – 1:15 pm: Panel Discussion**

**The Software-Defined Vehicle: How smart chips and batteries are Redefining Mobility?**

*Topics covered:*

- Increasing reliance on software reshaping vehicle functionality, user experience, and business models
- How advanced semiconductors (SiC, GaN, AI accelerators) enable software-defined features.
- AI-driven battery management systems (BMS) for predictive health & safety.
- Software-controlled charging optimization & dynamic power distribution.
- How semiconductors bridge battery systems with cloud-based analytics
- Centralized domain controllers vs. zonal architectures
- Software leveraging the advanced capabilities of modern semiconductors
- Government Initiatives and Policies
- Role of Indian Automotive OEMs and Tech Companies

**1:15 pm – 2:15 pm: Lunch Break**

**2:15 pm – 3:15 pm: Panel/ Simulation workshop**

**ADAS (Advanced Driver-Assistance Systems) Perception Simulation with Sensor Data**

*Topics covered:*

- The Concept of Synthetic Sensor Data
- Generative Models for Data Augmentation
- Object Modelling and Behaviour
- Bridging the Reality Gap
- Interactive and Closed-Loop Simulation

**3:30pm – 4:30 pm: Panel Discussion**

**The New Calculus: Geopolitics, Semiconductor Security, and the Future of Global Supply Chains**

*Topics covered:*

- Trade wars, regional conflicts, technology competition
- Semiconductor security
- Physical disruptions, cyber security
- Diversification and regionalization
- Indigenous supply ecosystem development

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